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noblemen. A lover of the great out-of-door and deeply interested in botany he mingled with flowers all his life, and the study of plants and music was his chief delight. His was a sensitive nature, easily hurt, but never did he allow hatred to enter his heart. Kind hearted and sympathetic, he felt deeply the pain and sorrow of those in trouble. Those who knew him best knew him as a man who followed Christ's teachings in all that he did, and loved him for his kindly, sympathetic nature.

Joel Lunell was born in Kalmar, Sweden, March 30th, 1851, and spent his boyhood days there. His father was Doctor of Theology and Philosophy and pastor of the Lutheran State Church, in which creed Joel Lunell was baptized. As he grew to manhood many hours were spent at the great pipe organ in the church and his knowledge of music gave him daily pleasure in later years.

At the age of eighteen he entered the university at Upsala, Sweden, to study philosophy and medicine.

He was married at Kalmar, Sweden, in 1884, to Miss Emma Swenson. In 1888 they came to America and settled at St. Paul where he was associated with Dr. Fleisburg. Later he moved to Willow City, where he practised his profession. In 1894 he moved his family to Leeds and has since made his home here.

In the early days of his career he worked so unceasingly among the sick that his health was broken, but in spite of this fact he still carried on. During the flu epidemic of 1918 he did his bit with the other and younger physicians, attending cases night and day until the danger had passed.

Besides keeping up his medical practice Dr. Lunell compiled a herbarium of over 30,000 specimens of plant life, including plants from all over the world. During the past thirteen years he has written botanical articles for the *American Midland Naturalist*, published at Notre Dame, Indiana.

Funeral services were held Monday afternoon from the Lutheran Church and interment made here. He is survived by his wife, six children and a brother.

"Waterfowl in Nebraska."

This very interesting and informing paper forms Part I. of Bulletin 794 of the U. S. Department of Agriculture. The following are the contents:—Introduction; Effect of Federal Protective Laws; Future of Waterfowl in the Sandhill Region; Natural Enemies; Hunting Grounds; Waterfowl Hunting in the Autumn of 1915; General Description of the Sandhill Region; Annotated List of Birds; Game Birds; Nongame Birds.

Seldom have I enjoyed a more interesting article on bird life than the one under consideration. And an important element of this interest is the description of the Sandhill Region where Dr.

Oberholzer made his observations. I think this large and unique territory is comparatively unknown, at least to that portion of the community that is not especially devoted to the sportsman's gun. But quite apart from the attraction that a hunter would naturally have for such a paradise of game birds, the Sandhill Region of Nebraska should be known to all Americans. There is probably no other similar territory that can approach in their vast extent and unique character the Sandhills of Nebraska.

As the contents of Dr. Oberholzer's paper indicate, he has made a very careful study of the waterfowl of the Sandhill Region of Nebraska. The reading of his article quite makes the bird lover envy the writer the excellent opportunity he had to study waterfowl. Most observers, unless they live in a favorable place, near a quiet lake or river, can not become acquainted with water birds. This has been my own experience, and I often regret that my home is not located where the study of waterfowl is possible. Dr. Oberholzer's contribution is, then, of great interest to the student of general ornithology, and will, no doubt, be universally appreciated.

A feature of Dr. Oberholzer's article that calls for special mention is the manner of treating his subject. Not too technical for the general reader, and still of genuine value to the special student or the hunter, his paper is a model of attractive writing on ornithology. The great detail (which shows minute observation) of the article can not be too highly commended. The author's work has been so well done that the reader feels grateful to him for the knowledge and pleasure that were made possible by the perusal of this fine production. It is to be hoped that many more similar opportunities will be afforded Dr. Oberholzer to visit regions where waterfowl are abundant. This seems to be a phase of ornithology in which the doctor should specialize, for his present paper points unmistakably to his ability to cultivate this field most profitably.

BROTHER ALPHONSUS, C. S. C.,
Notre Dame, Indiana.

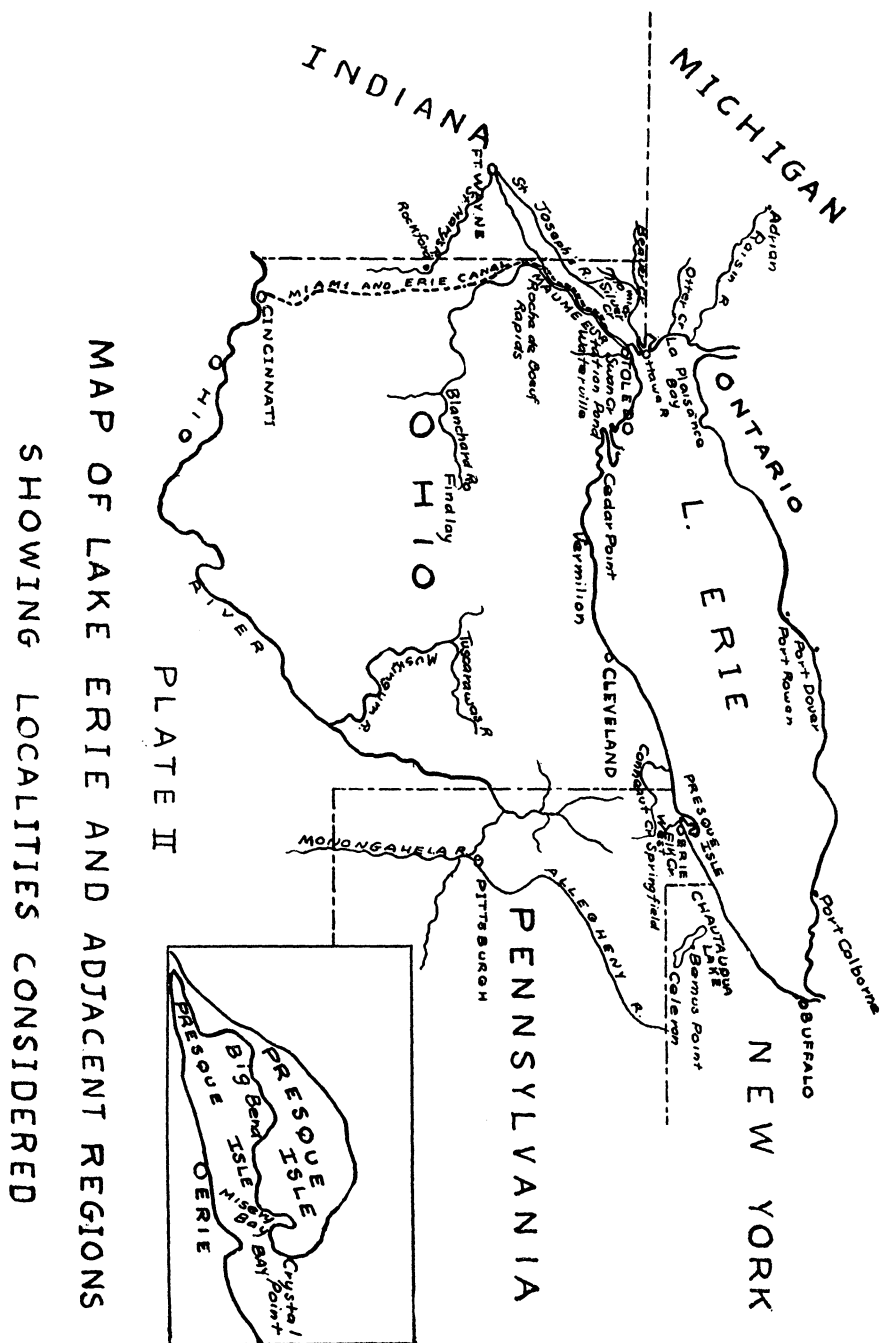


PLATE II.—GRIER ON VARIATION IN NACREOUS COLOR OF CERTAIN SPECIES OF NAIADES.

Chart Giving Partial Range of Variation of Epidermal Color in

UPPER OHIO DRAINAGE	FUSCONAJA FLAVA	AMBLEMA COSTATA	PLEUR. OBLIQ. COCCINEUM	ELLIPTIO DILATATUS	S
1 Potato Creek Smethport				Warm Sepia Brownish Olive	S
2 Allegheny River Larabee			Bone Brown Buffy Citrine	Snuff Brown Saccardos Umber	
3 Allegheny River Warren			Seal Brown Ecu Olive	Light Seal Brown	
4 Conewango Cr. Russell			Seal Brown	Tawney Olive Citrine	
5 Allegheny River Hickory			Mars Brown	Seal Brown Olive	
6 Brokenstraw Cr. Garland			Burnt Umber Olive		
7 Allegheny River Tionesta			Buffy Citrine	Cinnamon Brown Buffy Citrine	
8 Allegheny River Walnut Bend			Warm Sepia Olive	Snuff Brown	
9 Sandy Creek			Mummy Brown	Dresden Brown Buffy Citrine	
10 Allegheny River Parkers Ldg.				Aniline Black, Van Dyke Brown	
11 Allegheny River Templeton			Blackish Brown		
12 Allegheny River Mosgrove				Sepia, Buffy Olive	
13 Allegheny River Rosston	Sepia, Yellowish Citrine	Dresden Brown Dull Citrine	Dresden Brown Brownish Olive		
14 Allegheny River Kelley	Dresden Brown Brownish Olive	Warm Sepia	Seal Brown Olive Lake	Carob Brown Olive Lake	
15 Allegheny River Godfrey	Warm Sepia Buffy Olive	Light Seal Brown Yellowish Citrine	Prout Brown Buffy Citrine	Seal Brown Buffy Citrine	
16 Allegheny River White Rock	Cinnamon Brown Tawney Olive			Snuff Brown Dark Citrine	
17 Allegheny River Aladdin		Snuff Brown	Cinnamon Brown Ecu Olive		
18 Buffalo Cr. Harbison			Carob Brown Brownish Olive		
19 Allegheny River Schenley				Cinnamon Brown Deep Olive	
20 Allegheny River Natrona				Dresden Brown Wax Yellow	
21 Harmarville Pond					
FRENCH CREEK DRAINAGE					
22 Le Boeuf Cr.		Yellowish Citrine Warm Sepia	Dresden Brown Bay Color	Warm Sepia Brownish Olive	
23 Cambridge Springs			Mars Brown Brownish Olive		
24 Conneauttee Lake.					
25 Conneauttee Creek					

PLATE III.

Variation of Epidermal Color in Species Discussed, and Showing Association of Certain Epiderma

UR. OBLIQ. COCCINEUM	ELLIPTIO DILATATUS	SYMPHYNOTA COSTATA	ANODONTA GRANDIS	PARAPTERA FRAGILIS	PROPTERA ALATA	ANODONTA FRAGILIS
	Warm Sepia Brownish Olive	Saccardos Olive				
Brown Buffy Citrine	Snuff Brown Saccardos Umber					
Brown Ecru Olive	Light Seal Brown					
Seal Brown	Tawney Olive Citrine					
Ecru Brown	Seal Brown Olive	Warm Sepia				
Ecru Umber Olive		Dresden Brown Olive	Yellowish Citrine Lt Hellebore Grn			
Buffy Citrine	Cinnamon Brown Buffy Citrine	Buffy Olive				
Warm Sepia Olive	Snuff Brown	Prouts Brown Buffy Citrine				
Mummy Brown	Dresden Brown Buffy Citrine		Lt Yellowish Olive Brownish Olive			
	Aniline Black, Van Dyke Brown					
Blackish Brown					Mummy Brown Saccardos Olive	
	Sepia, Buffy Olive					
Dresden Brown Brownish Olive						
Ecru Brown Olive Lake	Carob Brown Olive Lake	Buffy Olive		Deep Olive Buff Citrine Drab.	Bister, Saccardos Umber	
Ecru Brown Buffy Citrine	Seal Brown Buffy Citrine	Ecru Olive Buffy Olive		Olive Brown Olive Lake	Blackish Brown	
	Snuff Brown Dark Citrine					
Cinnamon Brown Ecru Olive				Olive Brown Olive Lake		
Ecru Brown Brownish Olive		Buffy Citrine				
	Cinnamon Brown Deep Olive					
	Dresden Brown Wax Yellow				Snuff Brown Saccardos Umber	
			Old Gold, Olive Green			
Dresden Brown Ecru Color	Warm Sepia Brownish Olive	Mars Brown	Brownish Olive Cress Green			
Ecru Brown Brownish Olive			Deep Olive Buff Yellowish Citrine			
			Lt Brownish Olive Ecru Olive			
		Warm Sepia Buffy Citrine				

Association of Certain Epidermal Colors with Particular Localities

ERA FRAGILIS	PROPTERA ALATA	ANODONTOIDES FERUSSACIANUS	EURYNIA RECTA	LAMPSILIS LUTEOLA	LAMPSILIS OVATA
				Dresden Brown Ecre Olive	Buffy Olive Old Gold
			Warm Sepia Verona Brown		Dresden Brown Old Gold
			Bone Brown	Olive Ocher Ecre Olive	
			Brownish Olive Dk Greenish Olive		Brownish Olive Buffy Citrine
					Sepia, Isabella Color
			Snuff Brown Warm Sepia		Sepia Olive Lake
	Mummy Brown Saccardos Olive		Warm Sepia Olive	Lt Brownish Olive Yellowish Citrine	Sepia Isabella Color
			Dk Greenish Olive Dark Citrine		Buffy Olive Honey Yellow
					Old Gold Brownish Olive
ve Buff Drab.	Bister, Saccardos Umber		Sepia, Olive	Olive Lake Saccardo Olive	Brownish Olive Yellowish Olive
Brown Lake	Blackish Brown		Lt Brownish Olive Dark Olive		
Brown ve Lake			Lt Seal Brown Brownish Olive.		Dresden Brown Olive Lake
					Ecre Olive Buffy Olive
	Snuff Brown Saccardos Umber				
				Lt Brownish Olive Olive Lake	
					Lt Brownish Olive Olive Lake
				Old Gold Saccardos Olive	

17	Allegheny River Aladdin		Snuff Brown	Cinnamon Brown Ecu Olive	
18	Buffalo Cr. Harbison			Carob Brown Brownish Olive	
19	Allegheny River Schenley				Cinnamon Brown Deep Olive
20	Allegheny River Natrona				Dresden Brown Wax Yellow
21	Harmarville Pond				
FRENCH CREEK DRAINAGE					
22	Le Boeuf Cr.		Yellowish Citrine Warm Sepia	Dresden Brown Bay Color	Warm Sepia Brownish Olive
23	Cambridge Springs			Mars Brown Brownish Olive	
24	Conneauttee Lake.				
25	Conneauttee Creek				
26	Meadville		Saccardos Olive Mummy Brown		
27	Conneaut Lake				Dresden Brown Olive Brown
28	Conneaut Outlet		Prouts Brown	Prouts Brown Buffy Citrine	
29	French Creek Cochranton		Buffy Citrine Prouts Brown		Sepia Dark Olive
30	French Creek Utica		Blackish Brown	Seal Brown Burnt UMBER	Seal Brown Brownish Olive
31	Sugar Creek Coopertown				
32	Little Mahoning Cr. Goodville, Indiana Co.			Mummy Brown Brownish Olive	Seal Brown Brownish Olive
33	Crooked Creek Creekside	Ecu Olive Clove Brown			
34	Crooked Creek South bend				Warm Sepia Brownish Olive
35	Crooked Creek Rosston	Seal Brown Yellowish Citrine	Prouts Brown Dull Citrine	Prouts Brown Buffy Olive	Mummy Brown Buffy Citrine
KISKIMINETAS RIVER DRAINAGE					
36	Quemahoning Cr. Stantons Mills				Verona Brown Buffy Citrine
37	Conemaugh R. New Florence			Mars Brown Olive Lake	
38	Loyalhanna R. Ligonier				Snuff Brown Dark Olive
39	Loyalhanna R. Iale Park			Warm Sepia Yellowish Olive	Dresden Brown Buffy Olive
MONONGAHELA RIVER DRAINAGE					
40	Cheat River Cheat Haven		Seal Brown		Warm Sepia Ecu Olive
41	Dunkard Cr. Mt. Morris	Brussels Brown Olive Brown	Light Seal Brown	Seal Brown Warm Sepia	Buffy Citrine Brownish Olive
42	Dunkard Cr. Wiley				Snuff Brown Light Brown Olive

Ammon Brown Dark Olive				Olive Brown Olive Lake	
Dark Brown Brownish Olive		Buffy Citrine			
	Cinnamon Brown Deep Olive				
	Dresden Brown Wax Yellow				Snuff Brown Saccardos Umber
			Old Gold, Olive Green		
Dresden Brown May Color	Warm Sepia Brownish Olive	Mars Brown	Brownish Olive Cress Green		
Dark Brown Brownish Olive			Deep Olive Buff Yellowish Citrine		
			Lt Brownish Olive Ecreu Olive		
		Warm Sepia Buffy Citrine			
			Lt Brownish Olive Brownish Olive		Brown Light
	Dresden Brown Olive Brown		Ecreu Olive Yellowish Olive		Mummy Buffy
Dark Brown Buffy Citrine					Brown Buff
	Sepia Dark Olive	Saccardos Umber Ecreu Olive			
Dark Brown Dark Umber	Seal Brown Brownish Olive	Saccardos Olive Sepia			
			Bister		
Dark Brown Brownish Olive	Seal Brown Brownish Olive				
			Brownish Olive Yellowish Olive		
	Warm Sepia Brownish Olive				
Dark Brown Buffy Olive	Mummy Brown Buffy Citrine	Lt Brownish Olive Olive			
	Verona Brown Buffy Citrine	Warm Sepia, Buffy Citrine			
Dark Brown Olive Lake					
	Snuff Brown Dark Olive				
Warm Sepia Brownish Olive	Dresden Brown Buffy Olive		Bister, Buffy Brown		
	Warm Sepia Ecreu Olive				
Dark Brown Warm Sepia	Buffy Citrine Brownish Olive	Warm Sepia Brownish Olive	Mummy Brown Ecreu Olive		
	Snuff Brown Light Brown Olive				
		Mummy Brown			

Brown ve Lake			Lt Seal Brown Brownish Olive		Dresden Brown Olive Lake
					Ecru Olive Buffy Olive
	Snuff Brown Saccardos Umber				
				Lt Brownish Olive Olive Lake	
					Lt Brownish Olive Olive Lake
				Old Gold Saccardos Olive	
		Brownish Olive Light Brown. Olive	Verona Brown Dark Olive	Olive Lake Buffy Citrine	
		Mummy Brown Buffy Citrine		Brownish Olive Buffy Citrine	
		Brownish Olive Buffy Citrine		Lt Brownish Olive Ecru Olive	
			Sepia, Deep Olive		
			Bister Buffy Citrine		
				Lt Brownish Olive Ecru Olive	Brownish Olive. Ecru Olive
				Ecru Olive Brownish Olive	
			Dk Greenish Olive Dusky Yel'sh Green	Ecru Olive Buffy Olive	Buffy Olive Honey Yellow
					Buffy Olive Olive Lake
					Buffy Olive Isabella Color
					Brownish Olive. Olive Lake
					Buffy Brown Ecru Olive
				Brownish Olive	Brownish Olive

35	Crooked Creek Rosston	Seal Brown Yellowish Citrine	Prouts Brown Dull Citrine	Prouts Brown Buffy Olive	Mummy Brown Buffy Citrine	L
	KISKIMINETAS RIVER DRAINAGE					
36	Quemahoning Cr. Stantons Mills				Verona Brown Buffy Citrine	W
37	Conemaugh R. New Florence			Mars Brown Olive Lake		
38	Loyalhanna R. Ligonier				Snuff Brown Dark Olive	
39	Loyalhanna R. Iale Park			Warm Sepia Yellowish Olive	Dresden Brown Buffy Olive	
	MONONGAHELA RIVER DRAINAGE					
40	Cheat River Cheat Haven		Seal Brown		Warm Sepia Ecrú Olive	
41	Dunkard Cr. Mt. Morris	Brussels Brown Olive Brown	Light Seal Brown	Seal Brown Warm Sepia	Buffy Citrine Brownish Olive	B
42	Dunkard Cr. Wiley				Snuff Brown Light Brown Olive	
43	Ten M'le Creek Waynesburg	Seal Brown Ecrú Olive				M
44	Ten Mile Creek Amity	Cinnamon Brown Dark Olive Buff				
45	Ten Mile Creek Clarksville					
46	Monongahela R. Millsboro	Light Seal Brown Buffy Olive			Bister Brownish Olive	
47	Monongahela R. Charleroi	Light Seal Brown Bister			Seal Brown	Se I
48	Monongahela R. Westmoreland Co.	Sepia, Yellowish Citrine				
49	Monongahela R. Elizabeth	Bister Deep Olive Brown				
	OHIO RIVER DRAINAGE					
50	Chartiers Cr. Carnegie	Light Seal Brown Citrine Drab				
51	Ohio River Neville Island	Bister Brownish Olive			Bister Cinnamon Brown	
52	Ohio River Coraopolis				Black Dark Olive	
53	Ohio River Dead Mans Island					
54	Ohio River Edgeworth					
55	Ohio River Beaver					
	BEAVER RIVER DRAINAGE					
56	Padan Creek Linesville		Prouts Brown Yellowish Citrine	Walnut Brown		
57	Randolph Run Hartstown					
58	Shenango River Jamestown			Prouts Brown Cinnamon	Dresden Brown Deep Olive	
59	Shenango River Greenville				Mummy Brown Brownish Olive	

Dark Brown Buff Olive	Mummy Brown Buff Citrine	Lt Brownish Olive Olive				
	Verona Brown Buff Citrine	Warm Sepia, Buff Citrine				
Dark Brown Olive Lake						
	Snuff Brown Dark Olive					
Warm Sepia Brownish Olive	Dresden Brown Buff Olive		Bister, Buff Brown			
	Warm Sepia Ecru Olive					
Dark Brown Warm Sepia	Buff Citrine Brownish Olive	Warm Sepia Brownish Olive	Mummy Brown Ecru Olive			
	Snuff Brown Light Brown Olive					
		Mummy Brown				
			Ecru Olive Yellowish Olive			
	Bister Brownish Olive					
	Seal Brown	Sepia Brownish Olive				
					Blackish Brown Buff Olive	
		Mummy Brown				
	Bister Cinnamon Brown	Bister Deep Olive			Buff Brown Buff Olive	
	Black Dark Olive					
				Brownish Olive Olive Lake		
				Buff Olive Ecru Olive	Sepia Saccardos Umber	
				Colonial Buff Yellow Citrine		
Walnut Brown			Buff Olive Yellowish Olive			Light Yellow
Dark Brown Cinnamon	Dresden Brown Deep Olive		Brownish Olive Lt Yellowish Olive			
	Mummy Brown Brownish Olive					Brown Dust

			Dk Greenish Olive Dusky Yel'sh Green	Ecru Olive Buffy Olive	Buffy Olive Honey Yellow
					Buffy Olive Olive Lake
					Buffy Olive Isabella Color
					Brownish Olive. Olive Lake
					Buffy Brown Ecru Olive
				Brownish Olive Ecru Olive	Brownish Olive. Olive Lake
					Lt Brownish Olive. Deep Colonial Buff
	Blackish Brown Buffy Olive				
				Brownish Olive Ecru Olive	
					Brownish Olive Olive Lake
	Buffy Brown Buffy Olive		Bister Brownish Olive	Ecru Olive Brownish Olive	Sepia Isabella Color
					Dresden Brown Olive Lake
h Olive ve Lake					
ive Olive	Sepia Saccardos Umber		Snuff Brown Yellow. Citrine		Buffy Olive Ecru Olive
al Buff w Citrine					
		Light Brown. Olive Yellow. Citrine		Deep Colonial Buff Olive Lake	
				Deep Colonial Buff Light Brown. Olive	
				Olive Ochre Old Gold	Isabella Color Mummy Brown
		Brownish Olive Dull Citrine		Light Brown. Olive Olive Ochre	Light Brown. Olive Olive Lake

Chart Giving Partial Range of Variation of Epidermal Color in

BEAVER RIVER DRAINAGE	FUSCONAJA FLAVA	AMBLEMA COSTATA	PLEUR. OBLIG. COCCINEUM	ELLIPTIO DILATATUS	S
60 Shenango River Shenango		Dresden Yellowish Citrine	Carob Brown Deep Olive	Seal Brown Dresden Brown	
61 Shenango River Clarksville		Prouts Brown Buffy Citrine	Warm Sepia Buffy Citrine	Natal Brown Olive Brown	I
62 Pymatuning Cr. Pym. Twshp.		Mummy Brown Yellow Citrine	Brussels Brown Yellowish Citrine	Mars Brown Buffy Olive	V
63 Shenango R. Sharpsville		Mars Brown Buffy Citrine		Clove Brown	B
64 Shenango R. Pulaski		Prouts Brown Yellowish Citrine	Cinnamon Brown Brownish Olive	Warm Sepia Olive Citrine	
65 Shenango R. Harbor Bridge			Bay, Buffy Olive	Verona Brown Buffy Citrine	D
66 Otter Creek					
67 Neshannock Cr. Leesburg			Van Dyke Brown Tawney Olive	Warm Sepia Dark Olive Buff	
68 Neshannock Cr. Eastbrook			Mars Brown Buffy Citrine		
69 Neshannock Cr. Eastbranch					
70 Mahoning R. Leavittsburgh Ohio					
71 Mahoning R. Edinboro		Cinnamon Brown Yellowish Citrine		Bone Brown Dark Olive Buff	
72 Mahoning R. Hillsville		Mars		Carob Brown Bister	
73 Mahoning R. Coverts		Prouts Brown Buffy Citrine	Mummy	Warm Sepia	
74 Mahoning R. Mahoningtown Pa.		Mummy Brown Dull Citrine	Mars Brown Buffy Citrine	Mars Brown Brownish Olive	L
75 Beaver River Wampum		Mars Brown Olive Citrine	Prouts Brown Olive Lake	Warm Sepia Buffy Citrine	
76 Slippery Rock Cr. Roso Point				Dresden Brown Olive Citrine	
77 Slippery Rock Cr. Wurtemberg		Mars Brown Dk Olive Buff	Carob Brown Brownish Olive		D
78 Connoquenessing Cr. Connoquenessing		Blackish Brown II.			
79 Connoquenessing Cr. Harmony		Blackish Brown Dull Citrine	Blackish Brown		
80 Connoquenessing Cr. Zelienople		Lt Seal Brown			
81 Brush Cr. Celia					
82 Connoquenessing Cr. Ellwood City			Bister Buffy Citrine		
LITTLE BEAVER DRAINAGE					
83 Little Beaver Cr. Enon Valley				Brownish Olive	
84 Little Beaver Cr.				Buffy Citrine	

PLATE III.

Variation of Epidermal Color in Species Discussed, and Showing Association of Certain Epidermal

MUR. OBLIG. COCCINEUM	ELLIPTIO DILATATUS	SYMPHYNOTA COSTATA	ANODONTA GRANDIS	PARAPTERA FRAGILIS	PROPTERA ALATA	ANODONTA FERRUGINEA
Seal Brown Deep Olive	Seal Brown Dresden Brown					
Warm Sepia Buffy Citrine	Natal Brown Olive Brown	Buffy Olive Warm Sepia				
Islands Brown Yellowish Citrine	Mars Brown Buffy Olive	Warm Sepia Dull Citrine	Ecru Olive Yellowish Citrine			Br
	Clove Brown	Brownish Olive Olive				Dk G I
Hammon Brown Brownish Olive	Warm Sepia Olive Citrine					
Ver, Buffy Olive	Verona Brown Buffy Citrine	Dresden Brown Dark Citrine				
		Olive Lake				
Dyke Brown Pawney Olive	Warm Sepia Dark Olive Buff	Dark Citrine				
Islands Brown Buffy Citrine						
	Bone Brown Dark Olive Buff					
	Carob Brown Bister		Buffy Citrine Lt Hellebore Green			
Mummy	Warm Sepia					
Islands Brown Buffy Citrine	Mars Brown Brownish Olive	Light Brown Olive Olive Citrine				
Watts Brown Olive Lake	Warm Sepia Buffy Citrine		Olive Lake Varley Green			
	Dresden Brown Olive Citrine					
Carob Brown Brownish Olive		Dark Olive Buff Citrine Drab				
Darkish Brown						
			Warm Sepia Olive Lake			
Water Buffy Citrine						
	Brownish Olive					
	Buffy Citrine					

Association of Certain Epidermal Colors with Particular Localities

ERA FRAGILIS	PROPTERA ALATA	ANODONTOIDES FERUSSACIANUS	EURYNIA RECTA	LAMPSILIS LUTEOLA	LAMPSILIS OVATA
					Mars Brown Olive Lake
				Olive Lake Buffy Citrine	Buffy Olive Olive Ochre
		Brown Olive Ivy Green		Buffy Olive Lime Green	
		Dk Green Olive Brown Olive		Olive Lake Buffy Citrine	
				Dp Colon. Buff Buffy Olive	
					Brownish Olive Buffy Ol
				Buffy Citrine Saccardos Olive	Warm Sepia Olive Lake
					Olive Lake Olive Citrine
					Olive Citrine Olive Lake
				Lime Green Deep Olive Buff	
				Deep Colon. Buff Dark Olive Buff	Brownish Olive Honey Yellow
				Deep Colon. Buff Light Brown Olive	Deep Olive Buff Ecrú Olive
				Ecrú Olive Buffy Olive	Carob Brown Olive Yellow
					Brownish Olive Olive Lake
					Bister Light Brown Olive
					Brownish Olive Buffy Citrine

75	Beaver River Wampum		Mars Brown Olive Citrine	Prouts Brown Olive Lake	Warm Sepia Buffy Citrine	
76	Slippery Rock Cr. Roso Point				Dresden Brown Olive Citrine	
77	Slippery Rock Cr. Wurttemberg		Mars Brown Dk Olive Buff	Carob Brown Brownish Olive		D
78	Connoquenessing Cr. Connoquenessing		Blackish Brown II.			
79	Connoquenessing Cr. Harmony		Blackish Brown Dull Citrine	Blackish Brown		
80	Connoquenessing Cr. Zelienople		Lt Seal Brown			
81	Brush Cr. Celia					
82	Connoquenessing Cr. Ellwood City			Bister Buffy Citrine		
	LITTLE BEAVER DRAINAGE					
83	Little Beaver Cr. Enon Valley				Brownish Olive	
84	Little Beaver Cr. St W Branches				Buffy Citrine Isabella Color	
85	Little Beaver Cr. Cannelton					F
86	Little Beaver Cr. Darlington					
87	Little Beaver Cr. New Galilee				Dresden Brown Deep Olive	
88	Raccoon Cr. New Sheffield	Verona Brown Brownish Olive				
	OHIO RIVER					
89	Ohio River Shippingsport		Sepia Saccardos Umber		Light Seal Brown	
90	Ohio River Industry		Blackish Brown		Snuff Brown Olive Lake	
91	Ohio River Cooks Ferry		Bister Buffy Olive		Seal Brown Tawney Olive	
92	Ohio River Smiths Ferry				Bister Saccardos Umber	
	LAKE ERIE					
93	La Plaisance Bay	Olive Brown Snuff Brown	Cinnamon Brown Dull Citrine	Cinnamon Brown Brownish Olive	Brownish Olive Buffy Citrine	
94	Cedar Point	Buffy Citrine Dresden	Warm Sepia Olive Citrine		Dresden	
95	Vermilion County Ohio					
96	Presque Isle Bay	Carob Brown Yellowish Citrine	Russet Brown Yellowish Olive	Carob Brown Buffy Citrine	Cinnamon Brown Yellowish Citrine	Pr F
97	Buffalo N. Y.					
98	Port Colborne					
99	Port Rowan					
100	Port Dover					
	MAUMEE RIVER DRAINAGE					
101	St. Marys River Rockford					

Dresden Brown Olive Lake	Warm Sepia Buffy Citrine		Olive Lake Varley Green			
	Dresden Brown Olive Citrine					
Dark Brown Brownish Olive		Dark Olive Buff Citrine Drab				
Blackish Brown						
			Warm Sepia Olive Lake			
Water Buffy Citrine						
	Brownish Olive					
	Buffy Citrine Isabella Color					
		Bister Buffy Citrine				
	Dresden Brown Deep Olive					
		Citrine	Brownish Olive D'k Greenish Olive			
	Light Seal Brown				Blackish Brown	
	Snuff Brown Olive Lake	Yellowish Olive		Ecreu Olive Buffy Olive	Mummy Brown Olive	
	Seal Brown Tawney Olive			Ecreu Olive	Olive Brown Yellow Olive	
	Bister Saccardos Umber		Deep Olive Buff Ecreu Olive			
Cinnamon Brown Brownish Olive	Brownish Olive Buffy Citrine	Dresden Brown	Straw Yellow White	Deep Colonial Buff Saccardos Olive	Dark GreenishOlive Yellowish Olive	
	Dresden			Dark Olive Buff Grayish Olive	Dull Citrine Lt Brownish Olive	
			Buffy Brown Dark Olive Buff			
Dark Brown Buffy Citrine	Cinnamon Brown Yellowish Citrine	Prouts Brown Brownish Olive	Brownish Olive Ecreu Olive	Lt Brownish Olive Ecreu Olive	Brownish Olive Buffy Cirrine	Veron Brown Yellow
						I Brown

				Deep Colon. Buff Light Brown Olive	Deep Olive Buff Ecrú Olive
				Ecrú Olive Buffy Olive	Carob Brown Olive Yellow
					Brownish Olive Olive Lake
					Bister Light Brown Olive
					Brownish Olive Buffy Citrine
					Buffy Olive Ecrú Olive
				Deep Colon. Buff Ecrú Olive	Dark Brown Olive Olive Lake
					Buffy Citrine
	Blackish Brown		Clove Brown		
ve ffy Olive	Mummy Brown Olive		Olive Light Brown. Olive	Bister Ecrú Olive	Buffy Citrine Old Gold
Olive	Olive Brown Yellow Olive		Blackish Tawney Olive		
Colonial Buff os Olive	Dark GreenishOlive Yellowish Olive	Bister Hazel	Cinnamon Brown Olive Lake	Deep Colonial Buff Grayish Olive	Dark Olive Buff Ecrú Olive
ve Buff Olive	Dull Citrine Lt Brownish Olive		Yellowish Olive Buffy Olive	Deep Colonial Buff Deep Olive	Colonial Buff Dark Olive Bu
					Prouts Brown Olive Lake
ish Olive Olive	Brownish Olive Buffy Cirrine	Verona Brown Brownish Olive	Chestnut Brown Olive Lake	Cinnamon Brown Ecrú Olive	Colonial Buff Ochraceous Taw
		Yellowish Olive			
				Dark Olive Buff Citrine Drab	Deep Olive Buffy Olive
					Cinnamon Brown Chamois
		Light Brownish Olive		Ecrú Olive Colonial Buff	Dp Colonial Buff Brownish Olive
				Buffy Olive Ecrú Olive	

93	La Plaisance Bay	Olive Brown Snuff Brown	Cinnamon Brown Dull Citrine	Cinnamon Brown Brownish Olive	Brownish Olive Buffy Citrine	
94	Cedar Point	Buffy Citrine Dresden	Warm Sepia Olive Citrine		Dresden	
95	Vermilion County Ohio					
96	Presque Isle Bay	Carob Brown Yellowish Citrine	Russet Brown Yellowish Olive	Carob Brown Buffy Citrine	Cinnamon Brown Yellowish Citrine	Pr E
97	Buffalo N. Y.					
98	Port Colborne					
99	Port Rowan					
100	Port Dover					
	MAUMEE RIVER DRAINAGE					
101	St. Marys River Rockford					
102	Blanchard R. Finley Ohio					
103	Silver Cr. Williams Co., Ohio					
104	Maumee River Rapids					
105	Maumee River Station Pond					
106	Maumee River Allen Co., Ohio	Dresden Brown Olive Brown				
107	Beaver Cr. Williams Co., Ohio					
108	Swan Creek Toledo, Ohio					
109	Miami and Erie Canal Waterville, Ohio	Bister Mummy Brown				
110	Ten Mile Creek Silica, Ohio					
111	St Joseph River	Brownish Olive Yellowish Citrine				
	STREAMS DRAINING TO L. ERIE					
112	Raisin River Adrian Co., Mich					
113	Otter Cr. Monroe Co., Mich.					
114	Conneaut Cr. W. Springfield			Dresden Brown Buckthorn Brown	Lt Brownish Olive Buffy Citrine	
115	Elk Creek Miles Grove					
	EXTRA-LIMITAL					
116	Chautauqua Lake				Chestnut Buffy Citrine	
117	Tuscarawas R. Ohio	Citrine Drab		Burnt Umber Olive Lake		

Ammon Brown Brownish Olive	Brownish Olive Buffy Citrine	Dresden Brown	Straw Yellow White	Deep Colonial Buff Saccardos Olive	Dark GreenishOlive Yellowish Olive	
	Dresden			Dark Olive Buff Grayish Olive	Dull Citrine Lt Brownish Olive	
			Buffy Brown Dark Olive Buff			
Job Brown Buffy Citrine	Cinnamon Brown Yellowish Citrine	Prouts Brown Brownish Olive	Brownish Olive Ecrú Olive	Lt Brownish Olive Ecrú Olive	Brownish Olive Buffy Citrine	Veron Brown
						Yellow
						I Brown
						Brown
			Mummy Brown Buffy Citrine		Bister Buffy Citrine	
						Buffy Ecrú
			Brownish Olive Old Gold			
						Helle Dark
						Buffy Brown
						Buffy Dull
Dresden Brown Blackthorn Brown	Lt Brownish Olive Buffy Citrine		Yellowish Olive Yellowish Citrine			Ivy C Ecrú
			Mikado Brown Ecrú Olive			Clove De
	Chestnut Buffy Citrine					
Turnt Umber Olive Lake			Varley Green Chartreuse Yellow			

Colonial Buff Olive	Dark GreenishOlive Yellowish Olive	Bister Hazel	Cinnamon Brown Olive Lake	Deep Colonial Buff Grayish Olive	Dark Olive Buff Ecrú Olive
ve Buff Olive	Dull Citrine Lt Brownish Olive		Yellowish Olive Buffy Olive	Deep Colonial Buff Deep Olive	Colonial Buff Dark Olive Bu
					Prouts Brown Olive Lake
ish Olive Olive	Brownish Olive Buffy Cirrine	Verona Brown Brownish Olive	Chestnut Brown Olive Lake	Cinnamon Brown Ecrú Olive	Colonial Buff Ochraceous Taw
		Yellowish Olive			
				Dark Olive Buff Citrine Drab	Deep Olive Buffy Olive
					Cinnamon Brown Chamois
		Light Brownish Olive		Ecrú Olive Colonial Buff	Dp Colonial Buff Brownish Olive
				Buffy Olive Ecrú Olive	
				Dark Buff Ecrú Olive	
		Brownish Olive		Prouts Brown Dark Olive Buff	
	Bister Buffy Citrine		Brownish Olive Yellowish Olive	Buffy Olive Olive Ocher	
			Brownish Olive Yellowish Citrine		
				Primrose Yellow Buffy Olive	
		Buffy Olive Ecrú Olive		Bister Dark Olive Buff	
		Hellebore Green Dark Olive Buff		Olive Brown Dark Olive Buff	
		Buffy Olive Brownish Olive		Deep Colonial Buff Buffy Olive	
		Buffy Citrine Dull Citrine		Brownish Olive Olive Lake	
		Ivy Green Ecrú Olive			Lt Brownish Olive Buffy Olive
		Clove Brown Deep Olive			
				Ecrú Olive Light Brown. Olive	Carob Brown Ecrú Olive
			Brownish Olive Yew Green		